

Program Description/Textbook or Printed Instructional Material

Vendor: Holt, Rinehart and Winston, a division of Harcourt Inc. Web Address: www.hrw.com
Title: HRW Algebra One Interactions, Course One and Course Two
Author: Kennedy, et al **Copyright:** 2001
ISBN: Course One 0-03-055482-9 **Course/Content Areas:** Pre-Algebra/Algebra 1
Intended Grade or Level: 6-12 **Readability Level:** 7.8 without Technical Words, 8.7 with Technical words
List Price: \$60.60 **Lowest Wholesale Price:** \$45.45

ISBN: Course Two 0-03-055512-4 **Course/Content Areas:** Algebra 1
Intended Grade or Level: 6-12 **Readability Level:** 8.0 without Technical words, 9.4 with Technical words
List Price: \$60.60 **Lowest Wholesale Price:** \$45.45

Electronic Format:

Holt, Rinehart and Winston will provide an electronic format of this text that is computer-readable by speech synthesis software and readily converted to Braille. We are currently working with the state to determine the file specifications. The electronic format will be ready in time for use in the classroom.

FEATURES*

***DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

Algebra One Interactions is a two-book, two-year program. The program focuses on first year algebra, but also includes skills in basic mathematics and geometry and has a strong emphasis on technology and real-world applications. More than half of **Course 1** is devoted to exploring math concepts that help prepare students for algebra and geometry. **Course 1** can serve quite well as a pre-algebra text. **Course 1** includes Data and Patterns, Rational Numbers, Probability, Geometry Connections, Algebraic Operations, Equations and Inequalities, Linear Functions, Systems of Equations and Inequalities, a Preview of Exponential and Quadratic Functions, and Applications in Statistics and Geometry. **Course 2** includes Functions, Equations, Inequalities, Linear Functions and Systems, Matrices, Probability and Statistics, Transformations, Scientific Notation, Exponential Functions, Polynomials, Quadratic Functions, Radicals, Coordinate Geometry, Rational Functions, and Algebraic Proofs.

Student Experiences

Algebra One Interactions, designed to make algebra accessible to everyone, allows for flexibility in various teaching situations and meets the needs, abilities, and backgrounds of a diverse student population. Students are encouraged to use multiple representations to solve problems and to progress from the tangible to the symbolic. Students who do not possess acute memorization skills will be able to grasp algebraic thinking that was once reserved only for college-bound students. Students historically labeled as advanced or accelerated will gain a deeper understanding of the concepts and will be more likely to show an interest in mathematically oriented subjects such as chemistry, physics, logic, economics, statistics, and computer science. Within each lesson, real-life *Applications* and *Math Connections* allow students to relate the skills and concepts presented to other disciplines within and outside mathematics, such as Life Skills, Sports and Leisure, and Geometry, Probability, Statistics, Science, and Business and Economics. The *Communicate* feature gives students the opportunity to articulate what they have learned. *Practice and Apply* provides exercises for classroom and homework practice. *Eyewitness Math* provides students with the opportunity to read about current developments in mathematics and solve real-life problems.

Assessment

The **Algebra One Interactions** program offers a wide variety of assessment tools to evaluate the progress of students. For each lesson there is a set of *Assessing Prior Knowledge* questions, a *Lesson Quiz*, and *Communicate* questions. The *Try This* feature after examples in the lesson is an ongoing assessment that checks for skill proficiency. There is a *Chapter Review* and *Chapter Assessment* for each chapter. Other assessment opportunities include *Chapter Projects*, and *Eyewitness Math*. The Teacher's Planning Guide includes *Alternative Assessment*

Organization

options for each chapter as well as a pre-course *Diagnostic Test*. The *Assessment Resources* also include *Mid-Chapter Assessments*, *Chapter Assessments*, and *Alternative Assessments* for each chapter. The *Dynamic Test Generator* provides the ability to create customized tests.

The chapters and lessons in **Algebra One Interactions** build clearly and logically as the student is led from the study of patterns and numbers to variables, equations, and inequalities, and on to functions. Each *Chapter Introduction* provides an overview of the chapter content and objectives. Both Exploratory Lessons (presenting concepts using a discovery approach) and Expository Lessons (deductive in nature, employing instructional examples and including condensed explorations to assist in concept attainment) are incorporated. Each lesson opens with the *Why* feature. *Explorations* and *Examples* emphasizing multiple representation segment each lesson into manageable bites. Examples are followed by a *Try This* exercise for the students. Summaries and definitions are highlighted for quick and easy recognition. Each *Exercise* set has *Communicate* questions, *Practice and Apply*, *Look Back* (lesson-referenced, spiral, cumulative review) and *Look Beyond* (foreshadowing upcoming topics and challenging students to stretch their knowledge). Each Chapter closes with the *Chapter Project*, *Chapter Review*, and *Chapter Assessment*. *Extra Practice* for each lesson is in the back of the Student's Edition. The Teacher's Planning Guide helps the Teacher *Prepare* (Pacing Guide, Objectives and Overview, Vocabulary, Assessing Prior Knowledge), *Teach* (Approach A: Using the Book, or Approach B: Using Models), and *Assess, Reteach, and Enrich* (Selected Answers, Error Analysis, Alternative Assessment, Portfolio Activity, Reteach, Enrich).

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions:** See Below
- **Available Ancillary Materials:** Additional copies of all of the gratis materials may be purchased separately.

HRW ALGEBRA ONE INTERACTIONS, COURSE ONE ©2001 BY KENNEDY ET AL Available Upon Request, One Workbook Per Student Edition Purchased For The Life Of The Adoption

Practice Workbook, Course One	0-03-051258-1
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Available Upon request, one per teacher, year of purchase

Teacher's Instructional Kit, Course One	0-03-056367-4
Reteaching Masters, Course One	0-03-051259-X
Problem Solving/Critical Thinking Masters, Course One	0-03-051262-X
Technology Masters, Course One	0-03-051263-8
Assessment Resources, Course One	0-03-051264-6
Lab Activities and Long-Term Projects, Course One	0-03-051267-0
Tech Prep Mathematics Resources, Course One	0-03-051268-9
Spanish Resources, Course One	0-03-051269-7
Assessment Software: Item Listing, Course One	0-03-051272-7
Cooperative Learning Activities, Course One	0-03-051277-8
Writing Activities for Your Portfolio, Course One	0-03-051278-6
Block Scheduling Handbook, Course One	0-03-051279-4
Teaching Transparencies, Course One	0-03-051282-4
Solution Key, Course One	0-03-051284-0
HRW Technology Handbook	0-03-095292-1
Algebra Explorations: Functions and Graphs for Macintosh® and Windows® [CD-ROM]	0-03-016599-7
Teaching Transparencies Directory, Course One	0-03-051283-2
One-Stop Planner CD-ROM for Macintosh® and Windows®	0-03-066556-6
(choice of one version)	
Assessment Software, Course One Windows®	0-03-051273-5
Assessment Software, Course One Macintosh®	0-03-051274-3

Available Upon Request, One Classroom Set Of Student Editions Per Teacher Upon Implementation Of HRW Algebra One Interactions, Course One.

Algebra Essentials and Applications	0-03-064282-5
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Available Upon Request, One Per Teacher In The Year Of Receipt Of A Classroom Set Of Student Editions Of Algebra Essentials And Applications.

Algebra Essentials and Applications, Teacher's Edition and Planning Guide	0-03-064613-8
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HRW ALGEBRA ONE INTERACTIONS, COURSE TWO ©2001 BY KENNEDY ET AL
Available Upon Request, One Workbook Per Student Edition Purchased For The Life Of
The Adoption

Practice Workbook, Course Two	0-03-051289-1
Available Upon request, one per teacher, year of purchase	
Teacher's Instructional Kit, Course Two	0-03-056368-2
Reteaching Masters, Course Two	0-03-051292-1
Problem Solving/Critical Thinking Masters, Course Two	0-03-051293-X
Technology Masters, Course Two	0-03-051294-8
Assessment Resources, Course Two	0-03-051297-2
Lab Activities and Long-Term Projects, Course Two	0-03-051298-0
Tech Prep Mathematics Resources, Course Two	0-03-051299-9
Spanish Resources, Course Two	0-03-051302-2
Assessment Software: Item Listing, Course Two	0-03-051303-0
Cooperative Learning Activities, Course Two	0-03-051308-1
Writing Activities for Your Portfolio, Course Two	0-03-051309-X
Block Scheduling Handbook, Course Two	0-03-051312-X
Teaching Transparencies, Course Two	0-03-051313-8
Solution Key, Course Two	0-03-051317-0
HRW Technology Handbook	0-03-095292-1
Algebra Explorations: Functions and Graphs for Macintosh® and Windows® [CD-ROM]	0-03-016599-7
Teaching Transparencies Directory, Course Two	0-03-051314-6
One-Stop Planner CD-ROM for Macintosh® and Windows®	0-03-066556-6
Choice of one version	
Assessment Software, Course Two Windows®	0-03-051304-9
Assessment Software, Course Two Macintosh®	0-03-051307-3
Available Upon Request, One Classroom Set Of Student Editions Per Teacher Upon Implementation Of	
HRW Algebra One Interactions, Course Two.	
Algebra Essentials and Applications	0-03-064282-5
Available Upon Request, One Per Teacher In The Year Of Receipt Of A Classroom Set Of Student Editions	
Of Algebra Essentials And Applications.	
Algebra Essentials and Applications, Teacher's Edition and Planning Guide	0-03-064613-8

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

****DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and does not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, nor the Kentucky Department of Education.

In developing the 2001 edition of Algebra One Interactions, the Department of Research and Curriculum, editorial and consultant staff conducted observations, interviews, and reviews with teachers representing a diverse ethnic and socioeconomic background in various and diverse states. Performance effectiveness was monitored through surveys to product users, as well as by collecting appraisal statements from students and teachers, reports from field consultants and sales staff, and attitudinal surveys. Academic consultants who are experts in the various content areas of math reviewed the proposed manuscript. A complete Learner Verification Report is available upon request.

Program Description/Textbook or Printed Instructional Material

Vendor: <u>Holt, Rinehart and Winston, a division of Harcourt Inc.</u> Web Address: <u>www.hrw.com</u>	
Title: <u>Algebra 1</u>	
Author: <u>Schultz, et al</u>	Copyright: <u>2003</u>
ISBN: <u>0-03-066051-3</u>	Course/Content Areas: <u>Algebra 1</u>
Intended Grade or Level: <u>6-12</u>	Readability Level: <u>Corrected Grade Level Score 7.5</u>
List Price: <u>\$66.60</u>	Lowest Wholesale Price: <u>\$49.95</u>

Electronic Format:

Holt, Rinehart and Winston will provide an electronic format of this text that is computer-readable by speech synthesis software and readily converted to Braille. We are currently working with the state to determine the file specifications. The electronic format will be ready in time for use in the classroom.

FEATURES*

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Content

Algebra 1 is for students pursuing first year algebra. **Algebra 1** provides traditional math instruction with frequent practice while including options for students to communicate and explore content in ways that illuminate the transitions between concrete and abstract thinking. The primary objectives of the program are to motivate students through real world applications, to foster mathematical understanding through multiple representations of concepts, to integrate technology, and to accommodate a variety of learning styles and ability levels. Topics covered include: real number operations, solving equations and inequalities, proportional reasoning and statistics, linear functions, absolute value, systems of equations/inequalities, exponents and exponential functions, polynomials and factoring, rational functions, radical functions and coordinate geometry, probability, and transformations.

Student Experiences

Throughout the program, **Algebra 1** encourages student to use multiple representations to solve problems. Lesson Activities then allow the student to explore, practice and make connections to the mathematical concept that is presented in that lesson. Within each lesson, real-life *Applications* and *Connections* allow students to relate the skills and concepts presented to other disciplines within and outside mathematics, such as Life Skills, Sports and Leisure, and Geometry, Number Theory, Statistics, Science and Technology, and Business and Economics. The *Communicate* feature gives students the opportunity to articulate what they have learned. *Practice and Apply* provides both guided and independent practice exercises for classroom and homework practice. *Eyewitness Math* provides students with the opportunity to read about current development in mathematics and solve real-life problems. The Teacher's Edition provides numerous *Alternate Teaching Strategies*, *Inclusion Strategies*, *Enrichment* and *Cooperative Learning* opportunities to accommodate a variety of learning styles and ability levels.

Assessment

The **Algebra 1** program offers a wide variety of assessment tools to evaluate the progress of students. For each lesson there is a set of *Quick Warm-Up* questions to assess prior knowledge, a *Lesson Quiz*, and *Communicate* questions. *Checkpoint* questions within the lesson activities assess concept comprehension. The *Try This* feature after each example in the lesson is an ongoing assessment that checks for skill proficiency. There is a *Chapter Review and Assessment* for each chapter as well as a *Chapter Test*. The *College Entrance Exam Practice* at the back of each chapter is a lesson-referenced cumulative assessment. Other assessment opportunities include *Chapter Projects*, *Portfolio Activities*, and *Eyewitness Math*. The teacher interleaf pages for each chapter include *Alternative Assessment* options including *Performance Assessment*, *Portfolio Projects*, and internet links to additional *Performance Assessment* exercises, *Portfolio Projects*, and *Peer Assessment* activities. The *Assessment Resources* also includes *Mid-Chapter Assessment*. The *Dynamic Test Generator* provides the ability to create customized tests.

Organization

The chapters and lessons in **Algebra 1** build clearly and logically as the student is led from the study of number patterns to variables and equations, through functions and coordinate geometry and on to transformations. Each *Chapter Introduction* relates the chapter content to scenarios meaningful to the students, provides a quick overview of the chapter content, and lays the foundation for the *Chapter Project* and *Portfolio Activities*. The Teacher's Edition also provides background information, a sequential listing of the lesson objectives, and *Internet connect*

Organization (continued)

information. Each lesson then opens with the lesson objectives and the *Why* feature, making concepts real and relevant to the students. *Activities* and *Examples* emphasizing multiple representation segment each lesson into manageable bites. *Teaching Tips*, *Alternative Teaching Strategies*, *Error Analysis*, and *Additional Examples* are located in the teacher wrap at point of use. Each example is immediately followed by a *Try This* exercise for the students. Summaries and definitions are highlighted for quick and easy recognition. Each *Exercise* set has *Communicate* questions, *Guided Skills Practice*, independent *Practice and Apply*, *Look Back* (lesson-referenced, spiral, cumulative review) and *Look Beyond* (foreshadowing upcoming topics and challenging students to stretch their knowledge). Each Chapter closes with the *Chapter Project*, *Chapter Review and Assessment*, the *Chapter Test*, and *College Entrance Exam Practice*. *Extra Practice* for each lesson is in the back of the Student's Edition. Each chapter interleaf of the Teacher's Edition includes *Planning Guide* boxes that correlate the components of the **Algebra 1** instructional program with each lesson.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions:** See Below
- **Available Ancillary Materials:** Additional copies of all of the gratis materials may be purchased separately.

ALGEBRA 1 ©2003 by Schultz et al

Available Upon Request With Full Implementation Of The Program, One Per Student Edition Purchased, Teacher Access Also

Online Edition 0-03-067468-9

Available Upon Request, Choice Of One Workbook Per Student Edition Purchased For The Life Of The Contract And One Workbook Per Student Edition Purchased For The First Year Of The Adoption

Kentucky Algebra 1 Practice Workbook 0-03-070724-2

Kentucky Algebra 1 Standardized Test Practice Workbook 0-03-070726-9

Making Sense of Numbers: A Resource for Parents and Students 0-03-064284-1

Available Upon Request, State Specific Ancillaries Available Only In The First Two Years Of The Contract, The National Version Will Be Provided Thereafter; One Per Teacher, Year of Purchase .

Kentucky Algebra 1 Annotated Teacher's Edition and Everyday Resources 0-03-070727-7

Kentucky Algebra 1 One-Stop Planner CD-ROM with Dynamic Test Generator CD-ROM for Macintosh® and Windows® 0-03-068957-0

Available Upon Request, One Per Teacher, Year Of Purchase

Algebra 1 Alternative Resources and Assessment 0-03-066632-5

Algebra 1 Lesson Presentation Transparencies, Volumes 1 and 2 0-03-064834-3

Algebra 1 Teaching Transparencies 0-03-054302-9

Algebra 1 Answer Key Transparencies 0-03-066376-8

Algebra Explorations: Functions and Graphs for Macintosh® and Windows® [CD-ROM] 0-03-016599-7

Mathlopedia CD-ROM for Macintosh® and Windows® [single user version] 0-03-056602-9

Algebra 1 Lesson Presentations on CD-ROM 0-03-065051-8

Available Upon Request, One Classroom Set Of Student Editions Per Teacher Upon Implementation Of Algebra 1.

Algebra Essentials and Applications 0-03-064282-5

Available Upon Request, One Per Teacher In The Year Of Receipt Of A Classroom Set Of Student Editions Of Algebra Essentials And Applications.

Algebra Essentials and Applications, Teacher's Edition and Planning Guide 0-03-064613-8

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

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In developing the 2001 edition of **Algebra 1**, the Department of Research and Curriculum, editorial and consultant staff conducted observations, interviews, and reviews with teachers representing a diverse ethnic and socioeconomic background in various and diverse states. Performance effectiveness was monitored through surveys to product users, as well as by collecting appraisal statements from students and teachers, reports from field consultants and sales staff, and attitudinal surveys. In May 2000, additional research with math teachers was begun for the 2003 version of Algebra 1, and academic consultants reviewed the proposed manuscript. A complete Learner Verification Report is available upon request.

Program Description/Textbook or Printed Instructional Material

Vendor: Holt, Rinehart and Winston, a division of Harcourt Inc. Web Address: www.hrw.com
Title: Geometry
Author: Schultz, et al **Copyright:** 2003
ISBN: 0-03-066053-X **Course/Content Areas:** Geometry
Intended Grade or Level: 9-12 **Readability Level:** Corrected Grade Level Score 8.8
List Price: \$67.80 **Lowest Wholesale Price:** \$50.85

Electronic Format:

Holt, Rinehart and Winston will provide an electronic format of this text that is computer-readable by speech synthesis software and readily converted to Braille. We are currently working with the state to determine the file specifications. The electronic format will be ready in time for use in the classroom.

FEATURES*

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Content

Geometry, a one year program for High School Geometry, provides traditional math instruction with frequent practice while including options for students to communicate and explore content in ways that illuminate the transitions between concrete and abstract thinking. The primary objectives of the program are to motivate students through real world applications, to foster mathematical understanding through multiple representations of concepts, to integrate technology, and to accommodate a variety of learning styles and ability levels. Topics covered include: proof and logic, polygons, perimeter and area, surface area and volume, shapes in space, circles, triangles, dilations and scale factors, indirect measurement, trigonometry, taxicab geometry, and non-Euclidean and projective geometry. For a more detailed breakdown of topics, please refer to the Table of Contents.

Student Experiences

Throughout the program, **Geometry** encourages student to use multiple representations to solve problems. Lesson Activities then allow the student to explore, practice and make connections to the mathematical concept that is presented in that lesson. Within each lesson, real-life *Applications* and *Connections* allow students to relate the skills and concepts presented to other disciplines within and outside mathematics, such as Life Skills, Sports and Leisure, and Algebra, Probability, Science, and Business and Economics. The *Communicate* feature gives students the opportunity to articulate what they have learned. *Practice and Apply* provides both guided and independent practice exercises for classroom and homework practice. *Eyewitness Math* provides students with the opportunity to read about current development in mathematics and solve real-life problems. The Teacher's Edition provides numerous *Alternate Teaching Strategies*, *Inclusion Strategies*, *Enrichment* and *Cooperative Learning* opportunities to accommodate a variety of learning styles and ability levels.

Assessment

The **Geometry** program offers a wide variety of assessment tools to evaluate the progress of students. For each lesson there is a set of *Quick Warm-Up* questions to assess prior knowledge, a *Lesson Quiz*, and *Communicate* questions. *Checkpoint* questions within the lesson activities assess concept comprehension. The *Try This* feature after each example in the lesson is an ongoing assessment that checks for skill proficiency. There is a *Chapter Review and Assessment* for each chapter as well as a *Chapter Test*. The *College Entrance Exam Practice* at the back of each chapter is a lesson-referenced cumulative assessment. Other assessment opportunities include *Chapter Projects*, *Portfolio Activities*, and *Eyewitness Math*. The teacher interleaf pages for each chapter include *Alternative Assessment* options including *Performance Assessment*, *Portfolio Projects*, and internet links to additional *Performance Assessment* exercises, *Portfolio Projects*, and *Peer Assessment* activities. The *Assessment Resources* also includes *Mid-Chapter Assessment*. The *Dynamic Test Generator* provides the ability to create customized tests.

Organization

The chapters and lessons in **Geometry** build clearly and logically from the introduction of points, lines, and angles, through to the study of 2- and then 3-dimensional shapes and their properties, on into trigonometry, and then beyond into non-Euclidean geometries. The foundations of proof and logical reasoning are taught early in the book (Chapter 2) then expanded upon and used throughout the program in the teaching and exploration of geometric concepts,

Organization (continued)

culminating in Chapter 12's study of symbolic logic and indirect proofs. Each *Chapter Introduction* relates the chapter content to scenarios meaningful to the students, provides a quick overview of the chapter content, and lays the foundation for the *Chapter Project* and *Portfolio Activities*. The Teacher's Edition also provides background information, a sequential listing of the lesson objectives, and *Internet connect* information. Each lesson then opens with the lesson objectives and the *Why* feature, making concepts real and relevant to the students. *Activities* and *Examples* emphasizing multiple representation segment each lesson into manageable bites. *Teaching Tips*, *Alternative Teaching Strategies*, *Error Analysis*, and *Additional Examples* are located in the teacher wrap at point of use. Each example is immediately followed by a *Try This* exercise for the students. Summaries and definitions are highlighted for quick and easy recognition. Each *Exercise* set has *Communicate* questions, *Guided Skills Practice*, independent *Practice and Apply*, *Look Back* (lesson-referenced, spiral, cumulative review) and *Look Beyond* (foreshadowing upcoming topics and challenging students to stretch their knowledge). Each Chapter closes with the *Chapter Project*, *Chapter Review and Assessment*, the *Chapter Test*, and *College Entrance Exam Practice*. *Extra Practice* for each lesson is in the back of the book. Each chapter interleaf of the Teacher's Edition includes *Planning Guide* boxes that correlate the components of the **Geometry** instructional program with each lesson.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions:** See Below
- **Available Ancillary Materials:** Additional copies of all of the gratis materials may be purchased separately.

GEOMETRY ©2003 By Schultz et al

Available Upon Request, One Workbook Per Student Edition Purchased For The Life Of The Adoption

Geometry Practice Workbook	0-03-054324-X
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Available Upon Request, State Specific Ancillaries Available Only In The First Two Years Of The Contract, The National Version Will Be Provided Thereafter; One Per Teacher, Year of Purchase .

Kentucky Geometry Annotated Teacher's Edition and Everyday Teaching Resources	0-03-070729-3
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Kentucky Geometry One Stop Planner with Dynamic Test Generator CD-ROM for Macintosh® and Windows®	0-03-068958-9
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Available Upon Request, One Per Teacher, Year Of Purchase

Geometry Alternative Resources and Assessment	0-03-066633-3
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Geometry Teaching Transparencies	0-03-054338-X
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Geometry Answer Key Transparencies	0-03-064688-X
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Geometry Lesson Presentation Transparencies, Volumes 1 and 2	0-03-064816-5
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Geometry Lesson Presentations on CD-ROM	0-03-065052-6
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Mathepedia CD-ROM for Macintosh® and Windows® [single user version]	0-03-056602-9
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Available Upon Request, Choice Of One CD-ROM Program Per Teacher, Year Of Purchase

Geometry Investigations CD-ROM for use with Geometer's Sketchpad	0-03-056623-1
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Geometry Investigations CD-ROM for use with Cabri Geometry II™	0-03-064634-0
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RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

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Program Description/Textbook or Printed Instructional Material

Vendor: <u>Holt, Rinehart and Winston, a division of Harcourt Inc.</u> Web Address: <u>www.hrw.com</u>	
Title: <u>Algebra 2</u>	
Author: <u>Schultz, et al</u>	Copyright: <u>2003</u>
ISBN: <u>0-03-066054-8</u>	Course/Content Areas: <u>Algebra 2</u>
Intended Grade or Level: <u>9-12</u>	Readability Level: <u>Corrected Grade Level Score 9.8</u>
List Price: <u>\$70.40</u>	Lowest Wholesale Price: <u>\$52.80</u>

Electronic Format:

Holt, Rinehart and Winston will provide an electronic format of this text that is computer-readable by speech synthesis software and readily converted to Braille. We are currently working with the state to determine the file specifications. The electronic format will be ready in time for use in the classroom.

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Content

Algebra 2 is for students pursuing second year algebra. **Algebra 2** provides traditional math instruction with frequent practice while including options for students to communicate and explore content in ways that illuminate the transitions between concrete and abstract thinking. The primary objectives of the program are to motivate students through real world applications, to foster mathematical understanding through multiple representations of concepts, to integrate technology, and to accommodate a variety of learning styles and ability levels. Topics covered include: data and linear representations, numbers and functions, systems of equations/inequalities, matrices, quadratic functions, exponential and logarithmic functions, polynomial functions, rational and radical functions, conic sections, counting principles and probability, series, statistics, trigonometric identities, and trigonometric functions. For a more detailed breakdown of topics, please refer to the Table of Contents.

Student Experiences

Throughout the program, **Algebra 2** encourages student to use multiple representations to solve problems. Lesson Activities then allow the student to explore, practice and make connections to the mathematical concept that is presented in that lesson. Within each lesson, real-life *Applications* and *Connections* allow students to relate the skills and concepts presented to other disciplines within and outside mathematics, such as Life Skills, Sports and Leisure, and Geometry, Probability, Statistics, Science, Social Studies, and Business and Economics. The *Communicate* feature gives students the opportunity to articulate what they have learned. *Practice and Apply* provides both guided and independent practice exercises for classroom and homework practice. *Eyewitness Math* provides students with the opportunity to read about current development in mathematics and solve real-life problems. The Teacher's Edition provides numerous *Alternate Teaching Strategies*, *Inclusion Strategies*, *Enrichment* and *Cooperative Learning* opportunities to accommodate a variety of learning styles and ability levels.

Assessment

The **Algebra 2** program offers a wide variety of assessment tools to evaluate the progress of students. For each lesson there is a set of *Quick Warm-Up* questions to assess prior knowledge, a *Lesson Quiz*, and *Communicate* questions. *Checkpoint* questions within the lesson activities assess concept comprehension. The *Try This* feature after each example in the lesson is an ongoing assessment that checks for skill proficiency. There is a *Chapter Review and Assessment* for each chapter as well as a *Chapter Test*. The *College Entrance Exam Practice* at the back of each chapter is a lesson-referenced cumulative assessment. Other assessment opportunities include *Chapter Projects*, *Portfolio Activities*, and *Eyewitness Math*. The teacher interleaf pages for each chapter include *Alternative Assessment* options including *Performance Assessment*, *Portfolio Projects*, and internet links to additional *Performance Assessment* exercises, *Portfolio Projects*, and *Peer Assessment* activities. The *Assessment Resources* also includes *Mid-Chapter Assessment*. The *Dynamic Test Generator* provides the ability to create customized tests.

Organization

The chapters and lessons in **Algebra 2** build clearly and logically as the student is led from the study of linear equations and systems of equations, into the study of various families of functions and their applications, and finally into trigonometry. Along the way, students study conics, probability, series and sequences, and statistics. Each *Chapter Introduction* relates the chapter content to scenarios meaningful to the students, provides a quick overview

Organization (continued)

of the chapter content, and lays the foundation for the *Chapter Project* and *Portfolio Activities*. The Teacher's Edition also provides background information, a sequential listing of the lesson objectives, and *Internet connect* information. Each lesson then opens with the lesson objectives and the *Why* feature, making concepts real and relevant to the students. *Activities* and *Examples* emphasizing multiple representation segment each lesson into manageable bites. *Teaching Tips*, *Alternative Teaching Strategies*, *Error Analysis*, and *Additional Examples* are located in the teacher wrap at point of use. Each example is immediately followed by a *Try This* exercise for the students. Summaries and definitions are highlighted for quick and easy recognition. Each *Exercise* set opens with *Communicate* questions, followed by *Guided Skills Practice*, then independent *Practice and Apply*. The exercise sets close with *Look Back* - a lesson-referenced spiral and cumulative review - and *Look Beyond*, foreshadowing upcoming topics and challenging students to stretch their knowledge. Each Chapter closes with the *Chapter Project*, *Chapter Review and Assessment*, the *Chapter Test*, and *College Entrance Exam Practice*. *Extra Practice* for each lesson is in the back of the book. Each chapter interleaf of the Teacher's Edition includes *Planning Guide* boxes that correlate the components of the **Algebra 2** instructional program with each lesson.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions:** See Below
- **Available Ancillary Materials:** Additional copies of all of the gratis materials may be purchased separately.

ALGEBRA 2 ©2003 by Schultz et al

Available Upon Request, One Workbook Per Student Edition Purchased For The Life Of The Adoption

Algebra 2 Practice Workbook	0-03-054084-4
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Available Upon Request, State Specific Ancillaries Available Only In The First Two Years Of The Contract, The National Version Will Be Provided Thereafter; One Per Teacher, Year of Purchase .

Kentucky Algebra 2 Annotated Teacher's Edition and Everyday Teaching Resources	0-03-070728-5
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Kentucky Algebra 2 One Stop Planner with Dynamic Test Generator CD-ROM for Macintosh® and Windows®	0-03-068959-7
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Available upon request, one per teacher, year of purchase

Algebra 2 Alternative Resources and Assessment	0-03-066634-1
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Algebra 2 Teaching Transparencies	0-03-054104-2
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Algebra 2 Lesson Presentation Transparencies	0-03-064828-9
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Algebra 2 Answer Key Transparencies	0-03-064689-8
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Algebra Explorations: Functions and Graphs for Macintosh® and Windows® [CD-ROM]	0-03-016599-7
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Mathepedia CD-ROM for Macintosh® and Windows® [single user version]	0-03-056602-9
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Algebra 2 Lesson Presentations on CD-ROM	0-03-065053-4
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RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

****DISCLAIMER:** The Research Data/Evidence of Effectiveness was provided by the publisher and does not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, nor the Kentucky Department of Education.

In developing the 2001 edition of **Algebra 2**, the Department of Research and Curriculum, editorial and consultant staff conducted observations, interviews, and reviews with teachers representing a diverse ethnic and socioeconomic background in various and diverse states. Performance effectiveness was monitored through surveys to product users, as well as by collecting appraisal statements from students and teachers, reports from field consultants and sales staff, and attitudinal surveys. In May 2000, additional research with math teachers was begun for the 2003 version of Algebra 1, and academic consultants reviewed the proposed manuscript. A complete Learner Verification Report is available upon request.

Program Description/Textbook or Printed Instructional Material

Vendor: Holt, Rinehart and Winston, a division of Harcourt Inc.	Web Address: <u>www.hrw.com</u>
Title: <u>Precalculus: A Graphing Approach</u>	
Author: <u>Hungerford</u>	Copyright: <u>2002</u>
ISBN: <u>0-03-056511-1</u>	Course/Content Areas: <u>Precalculus/High School Math</u>
Intended Grade or Level: <u>9-12</u>	Readability Level: <u>Corrected Grade Level Score 10</u>
List Price: <u>\$79.40</u>	Lowest Wholesale Price: <u>\$59.55</u>

Electronic Format:

Holt, Rinehart and Winston will provide an electronic format of this text that is computer-readable by speech synthesis software and readily converted to Braille. We are currently working with the state to determine the file specifications. The electronic format will be ready in time for use in the classroom.

FEATURES*

***DISCLAIMER:** The features of each book or program were developed by the publisher and do not reflect the opinion of the State Textbook/Instructional Materials Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

PRECALCULUS: A Graphing Approach is a comprehensive program designed to provide the mathematical and technological background high school students need for calculus. The text integrates graphing technology into the course without losing the importance of the underlying mathematics. Careful explanations, numerous examples, an abundance of practice exercises and an ongoing focus on real-world applications are crucial components of the program. Topics covered include: number patterns, equations and inequalities, functions and graphs, polynomial, rational, exponential and logarithmic functions, trigonometry (graphs, equations, identities, proofs, and applications), analytic geometry, systems and matrices, statistics and probability, and limits and continuity. Indices also include Algebra and Geometry reviews.

Student Experiences

The concepts that play a central role in calculus are explored from algebraic, graphical, and numerical perspectives. Students are expected to participate actively in the development of these concepts by using graphing calculators or computers with suitable software, as directed in the *Graphing Explorations* and *Calculator Explorations*, either to complete a particular discussion or to explore appropriate examples. The exercises proceed from routine calculation and drill to problems requiring more thought, including graph interpretation and applications. Student *Notes*, *Cautions*, and *Technology Tips* assist students each step of the way. Within each lesson, real-life applications allow students to relate the skills and concepts presented to other disciplines within and outside mathematics, such as Biology and Life Science, Business and Manufacturing Consumer Affairs, Finance, and Geometry. *Excursions* provide students high-interest topics that are motivational and/or illustrate mathematics developed with the use of technology or present material that is used in other areas of mathematics. The *Can Do Calculus* feature gives student the opportunity to briefly step into the world of calculus. The Math in Practice CD-ROM shows how situations involving precalculus concepts arise in real life. Over 20 engaging interviews with professionals in such fields as aviation, food service, banking, and environmental science are presented.

Assessment

PRECALCULUS: A Graphing Approach offers a variety of assessment tools. Each lesson provides *Exercises* ranging from routine calculation to more challenging problems and applications. Each chapter concludes with a *Chapter Review* and *Review Exercises*. The *Dynamic Test Generator* CD-ROM provides the ability to create customized tests. Other assessment opportunities include *Graphing Explorations*, *Calculator Explorations*, *Excursions*, and *Can Do Calculus*.

Organization

The chapters and lessons in **PRECALCULUS: A Graphing Approach** build clearly and logically as the student is led from the study of number patterns, to equations and inequalities, through functions and trigonometry, and on to limits and continuity. Each chapter begins with a brief example of an application of the mathematics treated in that chapter, together with a reference to an appropriate exercise. The opener also lists the titles of the sections in the chapter and provides a diagram showing their interdependence. Each section then opens with a concise statement of the lesson objectives followed by exposition, examples, and explorations that segment each lesson into manageable bites. Summaries and definitions are highlighted for quick and easy recognition. Each lesson is followed by *Exercises* that reinforce the concepts taught. Each chapter then closes with a *Chapter Review* and the *Can Do Calculus* feature. The appendices contain reviews of pre-requisite material and well as enrichment material for advanced topics.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions:** See Below
- **Available Ancillary Materials:** Additional copies of all of the gratis materials may be purchased separately.

PRECALCULUS: A GRAPHING APPROACH ©2002 By Hungerford

Available upon request, one per teacher, year of purchase

Student Edition (due to information not included in the Teacher's Resource Manual)	0-03-056511-1
Teacher's Resource Manual	0-03-064974-9
Math in Practice [with Math in Practice CD-ROM For Windows®]	0-03-065997-3
Dynamic Test Generator with Electronic Testing and Grade Book CD-ROM	0-03-064972-2
Graphing Calculator Manual	0-03-064976-5

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS**

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In maintaining the established process for product development and validation, the Department of Research and Curriculum, the science editorial staff, consultants and marketing staff conducted a review and learner verification process for the development of **PRECALCULUS: A GRAPHING APPROACH, © 2002**. This evaluative process began in the spring of 1998 with a national survey of teachers of precalculus. Discussion groups and interviews were held with precalculus teachers in March 2000. A complete Learner Verification Report is available upon request.